

Abstract Of The Disclosure

The present invention is directed to nonwoven barrier fabrics, and more specifically, to medical, hygiene and industrial articles comprised of nonwoven compound fabrics with improved barrier to basis weight performance, wherein
5 the improved nonwoven compound fabrics are prepared by forming an intermediate nonwoven construct by supplying a strong and durable substrate layer followed by deposition of a frangible fibrous layer onto the substrate layer thereby providing nonwoven barrier materials. The so formed intermediate construct is subsequently subjected to mechanical energy which
10 induces the frangible fibrous layer to fragment into sub-fibers exhibiting an equivalent denier as the frangible fibrous component, said sub-fibers becoming inter-engaged in the strong and durable substrate layer, thereby providing nonwoven barrier materials exhibit useful barrier performance.